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Ultrasonic imaging system for non-invasive diagnostic application, averages modified out-of-phase pulses that are received from media of interest and processes averaged pulses for being displayed

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Number of Countries: 005 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020188199	A1	20021212	US 2001872541	A	20010531	200319 B
JP 2003038490	A	20030212	JP 2002158940	A	20020531	200321
DE 10224234	A1	20030109	DE 10224234	A	20020528	200325
CN 1389178	A	20030108	CN 2002122020	A	20020531	200334
TW 531407	A	20030511	TW 2002111412	A	20020529	200372
US 6866631	B2	20050315	US 2001872541	A	20010531	200520

Priority Applications (No Type Date): US 2001872541 A 20010531

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020188199	A1		12	A61B-008/00	
JP 2003038490	A		10	A61B-008/00	
DE 10224234	A1			G03B-042/06	
CN 1389178	A			A61B-008/00	
TW 531407	A			A61B-008/13	
US 6866631	B2			A61B-008/00	

Abstract (Basic): US 20020188199 A1

NOVELTY - A transmitter (120) transmits at least two out-of-phase pulses from a digital waveform generator (110), into media of interest (130) such as human body. A receiver and raw data averager unit (140) averages the modified pulses that are received from the media of interest. A data processing unit (150) processes the averaged pulses for being displayed in an image display unit (160) such as LCD.

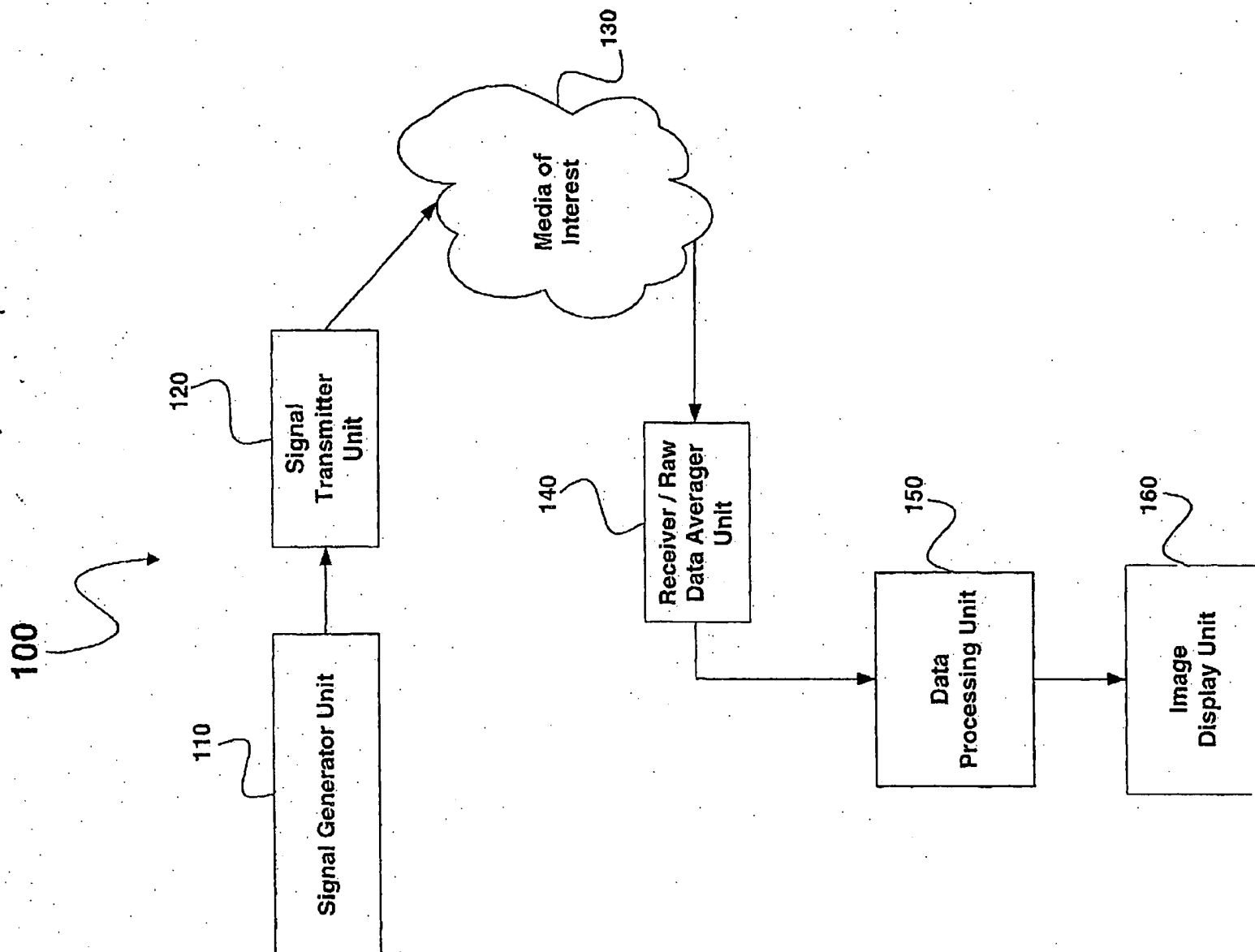
DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for ultrasonic imaging method.

USE - For non-invasive diagnostic application.

ADVANTAGE - Since two out-of-phase pulses are radiated towards the target tissue of human body, the echo signals received from the tissue, are measured appropriately, thus tissues with similar densities are imaged effectively.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the ultrasonic imaging system.

digital waveform generator (110)
transmitter (120)
media of interest (130)
raw data averager unit (140)
data processing unit (150)
image display unit (160)
pp; 12 DwgNo 1/5



Title Terms: ULTRASONIC; IMAGE; SYSTEM; NON; INVADE; DIAGNOSE; APPLY;
 AVERAGE; MODIFIED; PHASE; PULSE; RECEIVE; MEDIUM; INTEREST; PROCESS;
 AVERAGE; PULSE; DISPLAY

Derwent Class: P31; P82; S05; T01

International Patent Class (Main): A61B-008/00; A61B-008/13; G03B-042/06

International Patent Class (Additional): A61B-008/12; A61B-008/14;

G01N-029/00; G01N-029/22; G01S-015/89

File Segment: EPI; EngPI

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